

TITLE  
ISOLATION AND EXPRESSION OF A GENE FOR A NITRILASE  
FROM *ACIDOVORAX FACILIS* 72W

ABSTRACT

5           Recombinant microbial strains are provided that express nitrilase enzyme  
and are useful as biocatalysts for the hydrolysis of nitrile-containing substrates.  
The recombinant cells are transformed with a foreign gene isolated from  
*Acidovorax facilis* 72W encoding a thermostable nitrilase enzyme that catalyzes  
the hydrolysis of nitrile-containing substrates to carboxylic acids under mild  
10 reaction conditions. The nucleotide sequence of the nitrilase gene and the  
deduced amino acid sequence encoded by the nitrilase gene are provided.

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